# APPENDIX (III)

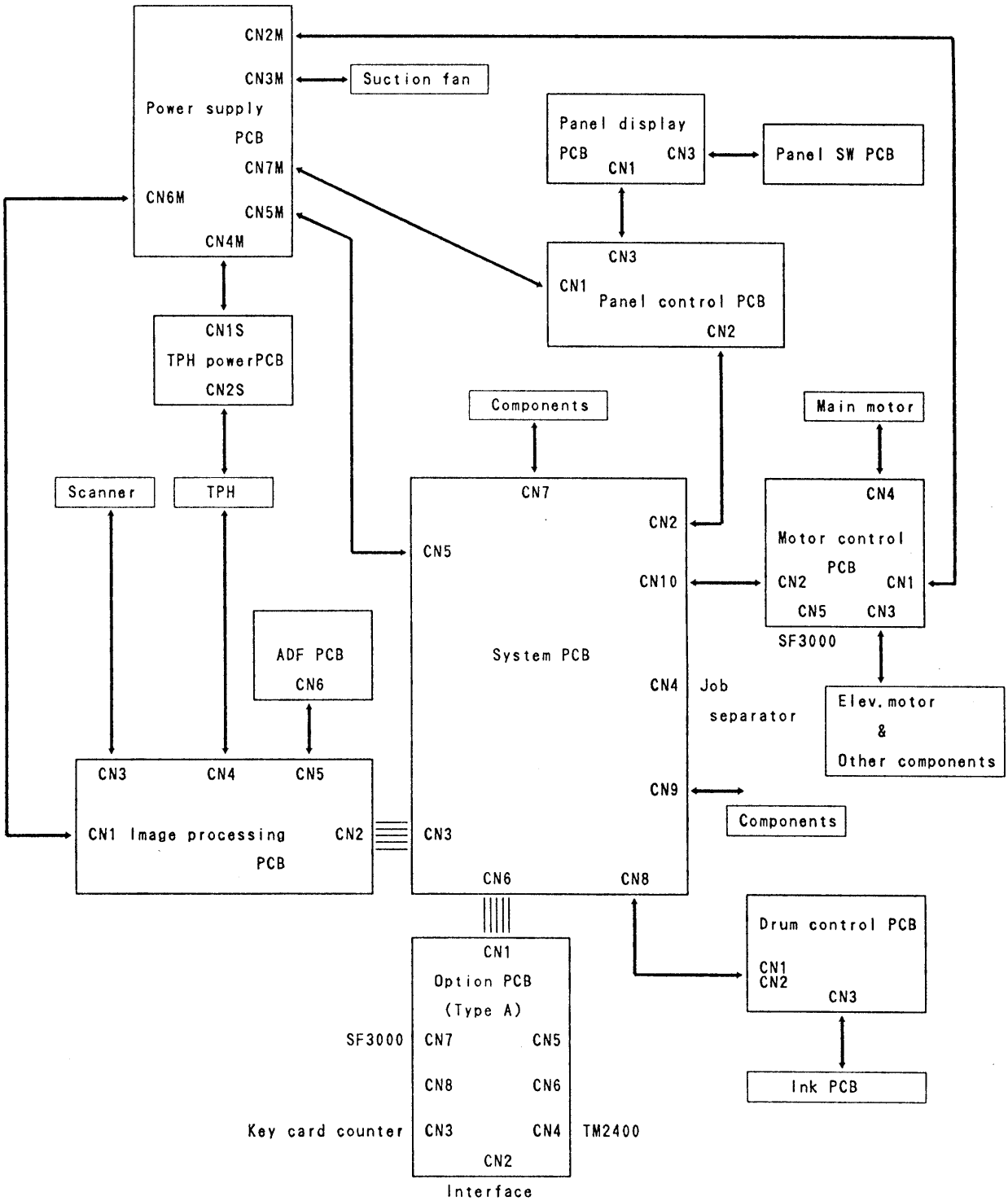
## CONTENTS


**1. Description of PCBs**

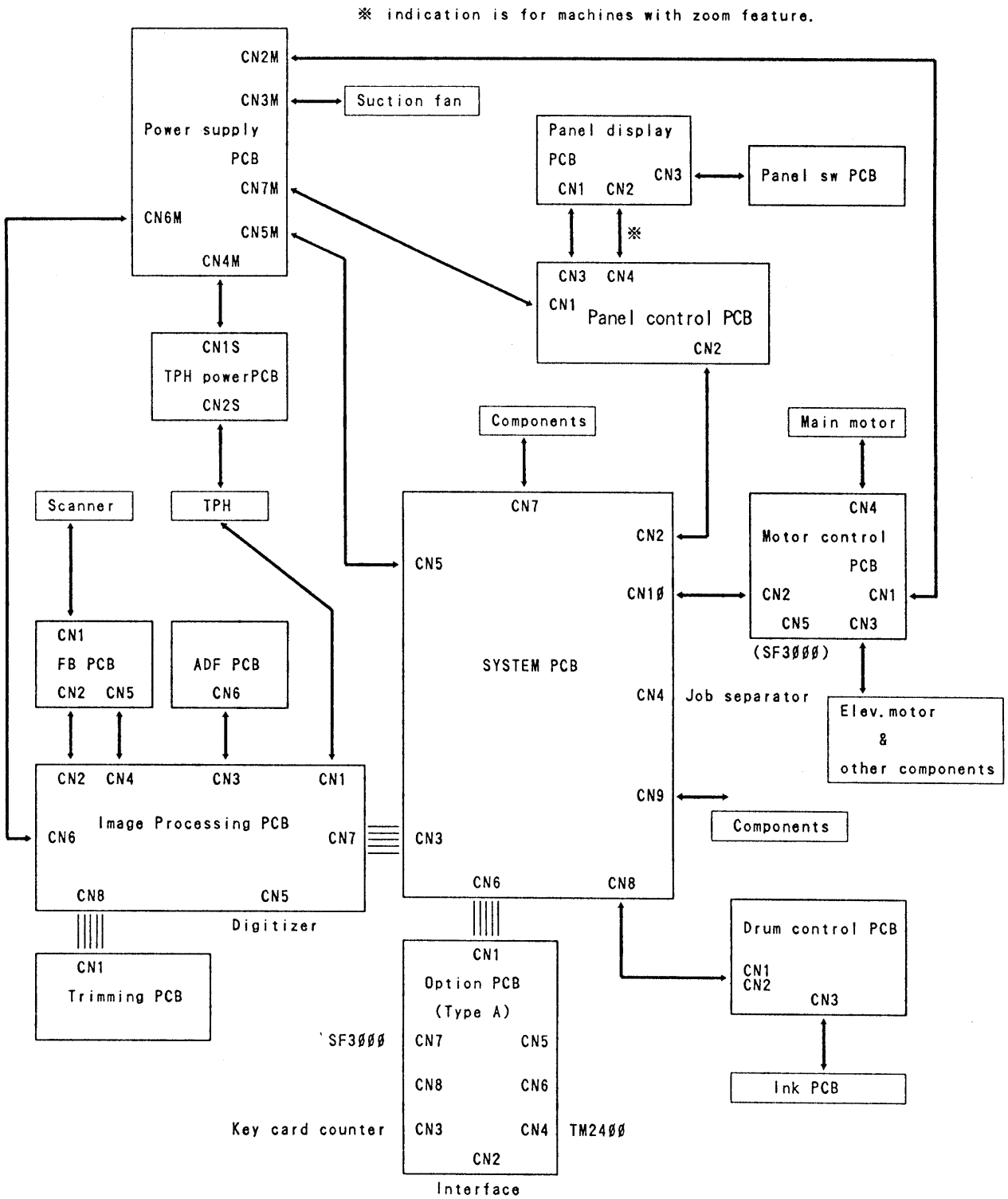
1. Block Chart (RA4200 & 4900) ..... APX (III)-1
2. Block Chart (RA5900) ..... APX (III)-2
3. Location of PCBs (RA4200 & 4900) ..... APX (III)-3
4. Location of PCBs (RA5900) ..... APX (III)-4
5. Power Supply PCB ..... APX (III)-5
6. System PCB ..... APX (III)-7
7. Image Processing PCB (RA4200) ..... APX (III)-14
8. Image Processing PCB (RA4900) ..... APX (III)-17
9. Image Processing PCB (RA5900) ..... APX (III)-18
10. Trimming PCB (RA5900) ..... APX (III)-21
11. Drum Control PCB ..... APX (III)-22
12. Motor Control PCB ..... APX (III)-24
13. ADF PCB ..... APX (III)-26
14. TPH Power PCB ..... APX (III)-29
15. Flat Bed PCB (RA5900) ..... APX (III)-31

**2. Integral Circuit Diagrams**

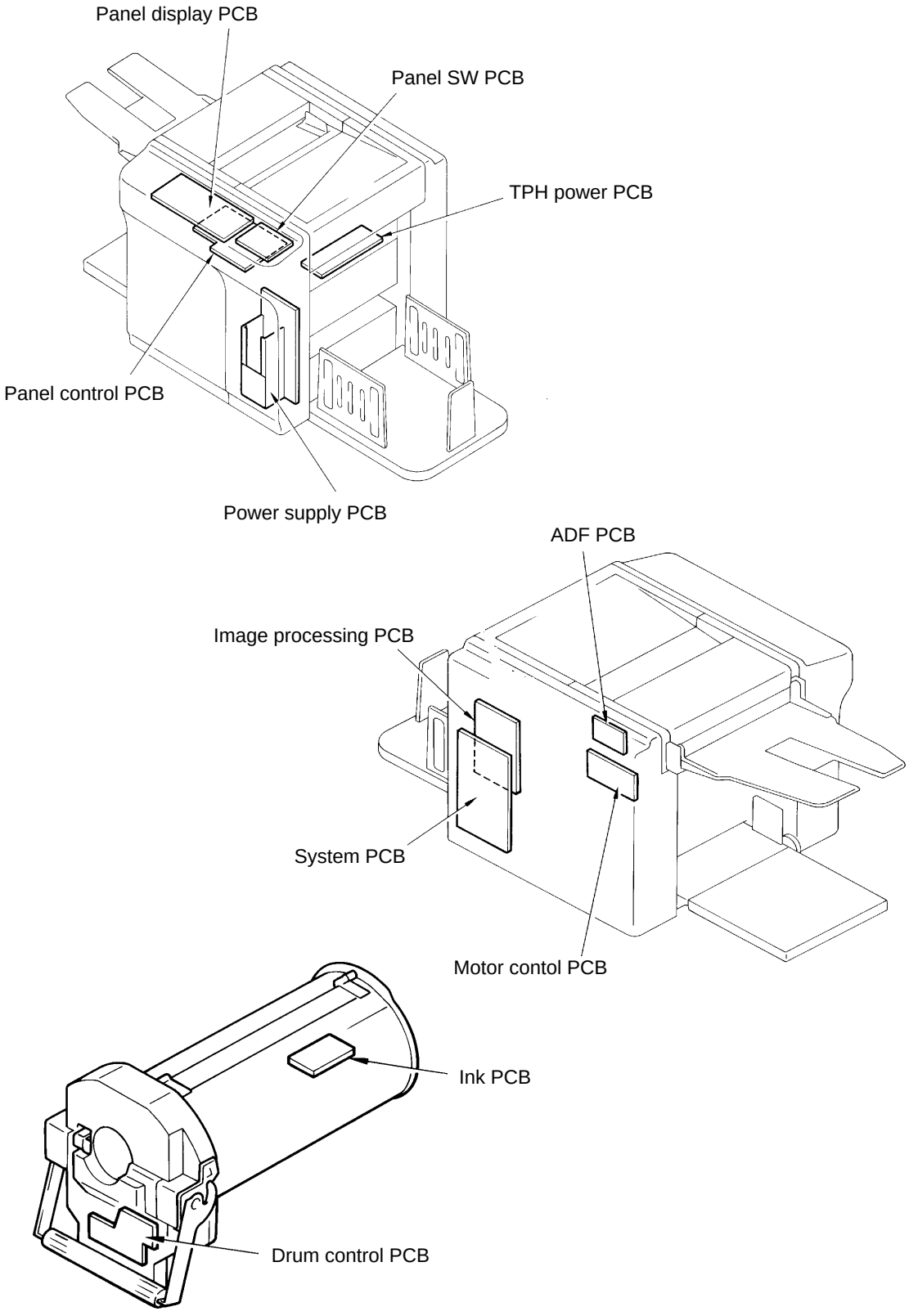
1. Integral Circuit Diagram (RA4200)
2. Integral Circuit Diagram (RA4900)
3. Integral Circuit Diagram (RA5900)


CN2M
CN3M
Suction fan
Power supply
PCB
CN7M
CN6M
CN5M
CN4M
Panel display
PCB
CN3
CN1
Panel SW PCB
CN3
CN1
Panel control PCB
CN2
CN1S
TPH powerPCB
CN2S
Components
Main motor
Scanner
TPH
CN7
CN2
CN5
CN10
CN4
Motor control
PCB
CN2
CN1
CN5
CN3
SF3000
ADF PCB
CN6
System PCB
CN4
Job
separator
Elev. motor
&
Other components
CN9
Components
CN3
CN4
CN5
CN1 Image processing
PCB
CN2
CN3
CN6
CN8
Drum control PCB
CN1
CN2
CN3
CN1
Option PCB
(Type A)
SF3000
CN7
CN5
CN8
CN6
Ink PCB
Key card counter
CN3
CN4
TM2400
CN2
Interface

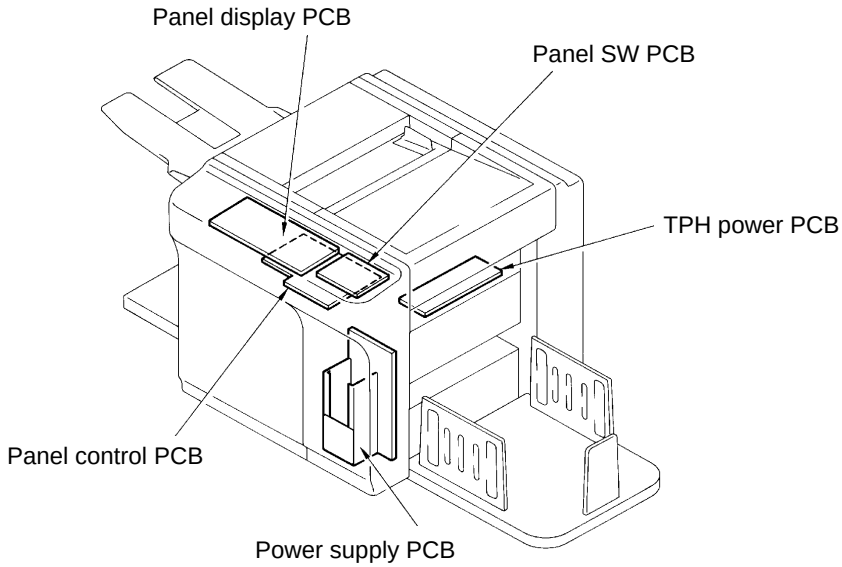
## 2. Block Chart (RA5900)

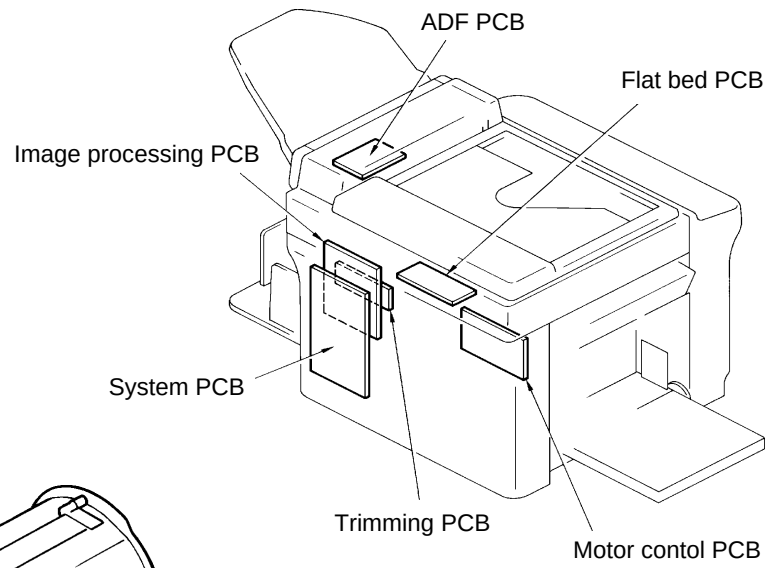


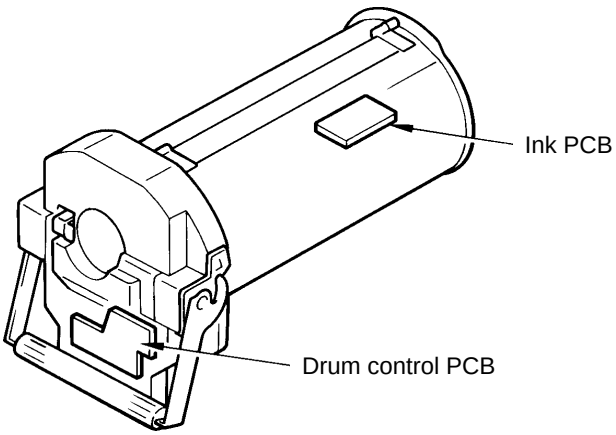
## 3. Location of PCBs (RA4200 & 4900)



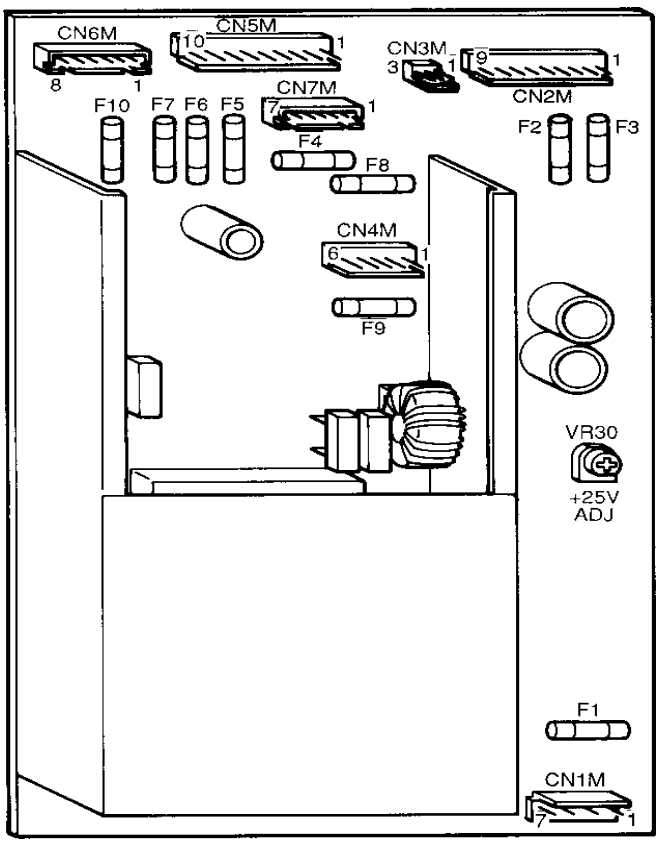
## 4. Location of PCBs (RA5900)



## 5. Power Supply PCB




**CN**

CN1 : From Main power switch
CN2 : To Motor control PCB
CN3 : To Suction fan
CN4 : To TPH power PCB
CN5 : To System PCB
CN6 : To Image processing PCB
CN7 : To Panel control PCB

**VR**

VR30: For adjustment of +25V output.

**FUSE**

| | | |
|---|---|---|
| F1 ( 10A/125V)<br>F1 ( 5A/250V) | Main Fuse for 120V Machine<br>Main Fuse for 240V Machine | AC120V<br>AC240V |
| F2 ( 8A/125V) | +24V (CN2M, Pins 3 & 4) | Motor control PCB |
| F3 ( 1A/125V) | +24V (CN2M, Pin 1) | Motor control PCB |
| F4 (3.15A/125V) | +24V(a) (CN5M, Pin 7) | System PCB (a)-system |
| F5 (3.15A/125V) | +24V(b) (CN5M, Pin 8) | System PCB (b)-system |
| F6 (3.15A/125V) | +24V(c) (CN5M, Pin 9) | System PCB (c)-system |
| F7 (3.15A/125V) | +24V(d) (CN6M, Pin 5) | Image processing PCB |
| F8 ( 1A/125V) | +24V (CN3M, Pin 3) | Suction motor |
| F9 (3.15A/125V) | + 5V (CN2M, Pin 8)<br>(CN5M, Pin 1)<br>(CN6M, Pin 7)<br>(CN7M, Pins 7 & 8) | Motor control PCB, System PCB &<br>Panel control PCB, Image processing PCB. |
| | +12V (CN5M, Pin 3)<br>(CN6M, Pin 8)<br>(CN7M, Pin 5) | System PCB & Panel control PCB |
| | +15V (CN6M, Pin 3) | Image processing PCB |
| F10 (3.15A/125V) | - 12V (CN6M, Pin 1)<br>(CN7M, Pin 6) | Image processing PCB & Panel control PCB |